1U1 THRU 1U7

FEATURES

Plastic package has Underwriters Laboratory
Flammability Classification 94V-O utilizing
Flame Retardant Epoxy Molding Compound

- 1 ampere operation at T_A=55 ¢J with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Ultra fast switching for high efficiency

MECHANICAL DATA

Case: Molded plastic, R-1

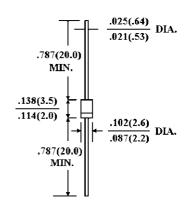
Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.0064 ounce, 0.181 gram



R-1

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢ ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

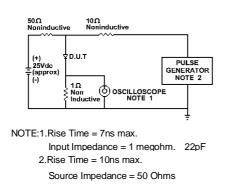
	1U1	1U2	1U3	1U4	1U5	1U6	1U7	UNITS
Peak Reverse Voltage, Pepetitive; V _{RM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
DC Blocking Voltage; VR	50	100	200	400	600	800	1000	V
Average Forward Rectified, lo @T _A =55 ¢J				1.0				Α
3/8" lead length, 60Hz, resistive or inductive								
load								
Peak Forward Surge Current I _{FM} (surge)	30.0							Α
8.3msec. single half sine-wave								
superimposed on rated load (JEDEC								
method)					1			
Maximum Forward Voltage V _F @1.0A, 25 ¢J	1.00 1.10 1.70					V		
Maximum Reverse Current, @ Rated T _J =25 ¢ J	10.0							£g A
Reverse Voltage T _J =100 ¢J	500							£g A
Typical Junction capacitance (Note 1) CJ	17							₽F
Typical Thermal Resistance (Note 2) R £K JA	65.0							¢J/W
Maximum Reverse Recovery Time	50	50	50	50	75	75	75	ns
I _F =.5A, I _R =1A, Irr=.25A								
Operating and Storage Temperature Range	-55 TO +150							¢J

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted



RATING AND CHARACTERISTIC CURVES 1U1 THRU 1U7



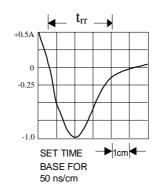


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

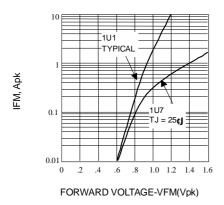


Fig. 2-FORWARD CHARACTERISTICS

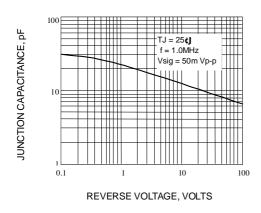


Fig. 4-TYPICAL JUNCTION CAPACITANCE

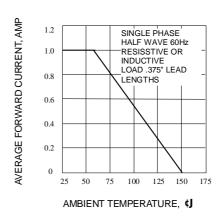


Fig. 3-FORWARD CURRENT DERATING CURVE

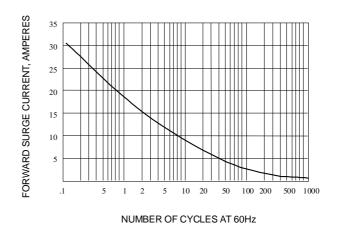


Fig. 5-PEAK FORWARD SURGE CURRENT

